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**Joint EFCOG/DOE Chemical Management 2003  
and Beryllium Workshop**

**November 4 -6, 2003**

**Chemical Safety Management at the Activity Level**

*Topical Themes*

- ❖ *Identifying and Controlling Chemical Hazards*
- ❖ *Behavior Based Safety and Preventing Chemical Incidents*
- ❖ *Beryllium Overview and Beryllium Release Criteria*

*Sponsored by*

**EFCOG/DOE Chemical Safety Topical Committee (CSTC)  
EFCOG Safety Analysis Working Group  
DOE Office of Environment, Safety and Health  
DOE Technical Standards Program Office**

*Workshop Location*

**DOE Forrestal Auditorium (GE-086)  
1000 Independence Ave. SW, Washington, D.C. 20585  
and**

**Audio\*\* and Video-linked to various locations throughout the DOE Complex**

***Reminder -- Please bring your DOE badge or obtain a visitor's badge upon arrival***  
**[\*\*LISTEN ONLY CALL-IN NUMBER for all three days is 301-903-9197 \*\*]**

*Designated Hotels*

**The Loew's L'Enfant Plaza Hotel**

**480 L'Enfant Plaza, S.W.  
Washington, D.C. 20024**

**[Reservations: 1-800-635-5065 or 202-484-1000]  
[Room Block Under "DOE Chem. Management"]**

**The Channel Inn**

**650 Water St., SW  
Washington, D.C. 20024**

**[Reservations: 1-800-368-5668 or 202-554-2400]  
[Room Block Under #5979]**

**Holiday Inn**

**550 'C' St., SW  
Washington, D.C. 20024**

**[Reservations: 1-800-465-4329 or 202-479-4000]  
[Room Block Under "DOE Chem. Management"]**

**REGISTER at our home page at [http://tis.eh.doe.gov/web/chem\\_safety/ws2003](http://tis.eh.doe.gov/web/chem_safety/ws2003)**

**Day 1 -- Tuesday, November 4, 2003**

***Identifying and Controlling Chemical Hazards at the Activity Level,  
Behavior Based Safety and Preventing Chemical Incidents***

[All times are EasternTime]

**OPENING SESSION -- FORRESTAL MAIN AUDITORIUM (GE-086)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8:30 – 11:30</b>  | <b>Registration/Name Tags and Packet Pick-up</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>9:00 – 9:05</b>   | <b>Welcome/Opening Comments by EFCOG/DOE-HQ CSTC Co-Chairs</b><br><i>J.C. Laul, Los Alamos National Laboratory/ EFCOG SAWG-CSS Chair/CSTC EFCOG Chair</i><br><i>Bill McArthur, Director, Worker Protection Policy &amp; Programs/EH-52/CSTC DOE Chair</i>                                                                                                                                                                                                                            |
| <b>9:05 – 9:35</b>   | <b>Host and Sponsors' Welcomes</b> <ul style="list-style-type: none"><li>- <b>DOE Corporate Welcome</b><br/><b>"DOE Chemical Safety Management at the Activity Level"</b><br/><i>Beverly A. Cook, DOE Assistant Secretary for Environment, Safety and Health (EH-1)</i></li><li>- <b>EFCOG Corporate Welcome</b><br/><b>"Chemical Safety Management at the Activity Level: The EFCOG Perspective"</b><br/><i>Robie Enge, Associate Lab Director, PNNL, Director, EFCOG</i></li></ul> |
| <b>9:35–10:00</b>    | <b>"Chemical Safety Management at the Activity Level from the Perspective of a New Defense Nuclear Facilities Safety Board Member"</b><br><i>R. Bruce Matthews, Board Member</i>                                                                                                                                                                                                                                                                                                     |
| <b>10:00--10:15</b>  | <b>BREAK [15 minutes]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>10:15 –11:30</b>  | <b>TRAINING SESSION: "Behavior Based Safety"</b><br><i>Jim Kleinsteuber, LANL</i>                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>11:30 – 12:45</b> | <b>LUNCH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>12:45 – 1:30</b>  | <b>"Behavior Based Safety/Human Factors Process at ExxonMobil Co."</b><br><i>Edward Hojnacki, ExxonMobil Co.</i>                                                                                                                                                                                                                                                                                                                                                                     |
| <b>1:30 – 2:15</b>   | <b>"Automated Hazards Analysis – Work Planning at the Activity Level"</b><br><i>Tim Flake, WSRC</i>                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>2:15 – 2:30</b>   | <b>BREAK [15 minutes]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>2:30 – 3:15</b>   | <b>"Formation and Detonation of Chlorine Dioxide Causes a Near-Miss Accident"</b><br><i>Jeff Williams, NNSA Los Alamos Site Office</i>                                                                                                                                                                                                                                                                                                                                               |
| <b>3:15 – 4:00</b>   | <b>"Removable Thin Films Used for the Abatement &amp; Mitigation of Hazardous Particulates"</b><br><i>M. Lumia, Princeton Plasma Physics Laboratory</i>                                                                                                                                                                                                                                                                                                                              |
| <b>4:00 – 4:25</b>   | <b>"Beryllium Research Agenda"</b><br><i>David Weitzman, DOE/EH-52</i>                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>4:25 – 4:45</b>   | <b>"Beryllium Registry Status"</b><br><i>Paul Wambach, DOE/EH-53</i>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>4:45 – 5:00</b>   | <b>Closing Remarks and Highlights of the Day's Discussions/ Preview of Day 2</b><br><i>Bill McArthur/J.C. Laul</i>                                                                                                                                                                                                                                                                                                                                                                   |

**Day 2 -- Wednesday, November 5, 2003**

***Identifying and Controlling Chemical Hazards at the Activity Level***

***CSTC 2003/2004 Project Discussions and Training [Track I]***

***Beryllium Release Criteria Document [Track II]***

| <b>TRACK I [9:00 – 12:30]<br/>GENERAL SESSION [MAIN AUDITORIUM]</b> |                                                                                                                                                                                                                                                                                                                                                                     | <b>TRACK II [9:00 – 3:00]<br/>BERYLLIUM RELEASE CRITERIA<br/>DOCUMENT</b>                                                                                                                                         |  |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>9:00 – 9:25</b>                                                  | <b>CSTC Project 2003-B:<br/>“A CSTC Analysis of Chemical Incidents at DOE”</b><br><i>James Morgan, WSRC [Team Chair]</i>                                                                                                                                                                                                                                            | <b>TELECONFERENCE WORKING SESSIONS<br/>WITH KEY PRESENTATIONS</b>                                                                                                                                                 |  |
| <b>9:25 – 10:00</b>                                                 | <b>CSTC Project 2003-C:<br/>“Current Chemical Hazard Characterization<br/>Practices at DOE and Suggested<br/>Recommendations”</b><br><i>J.C. Laul, LANL [Team Chair]</i>                                                                                                                                                                                            | <b>CRITERIA</b> <i>Mike Garcia, NNSA [Team Lead]</i><br>Room GH-019 [Call-in Number 301-903-6098]<br><b>“Correlation of Be and Pu Compliance Data”</b><br><i>Glover/Saban, SRS</i>                                |  |
| <b>10:00 – 10:10</b>                                                | <b>BREAK [10 minutes]</b>                                                                                                                                                                                                                                                                                                                                           | <b>CHARACTERIZATION</b> <i>Larry Jones, Y-12 [Team Lead]</i><br>Room GH-027 [Call-in Number 301-903-6202]<br><b>“An Investigation of Be Exposure Potential in<br/>Machining A357 Al Alloy”</b> <i>Frede, KCP</i>  |  |
| <b>10:10 – 10:35</b>                                                | <b>CSTC Project 2003-D:<br/>“Methods for Addressing the Hazards of Time<br/>Sensitive Chemicals”</b><br><i>Helena Whyte, LANL [Team Chair]</i>                                                                                                                                                                                                                      | <b>“Laboratory Beryllium Analyses in the DOE<br/>Complex: Where We Are &amp; Where We Need to Go”</b><br><i>Brisson, WSRC</i>                                                                                     |  |
| <b>10:35 – 11:00</b>                                                | <b>CSTC Project 2003-E:<br/>“Chemical Exposures During Closure Activities”</b><br><i>Marco Colalancia, Rocky Flats [Team Chair]</i>                                                                                                                                                                                                                                 | <b>“Real Time Monitoring for Be Contamination:<br/>Technical Developments”</b> <i>Ekechukwu, WSRC</i>                                                                                                             |  |
| <b>11:00 – 11:45</b>                                                | <b>TRAINING SESSION – CSTC Project 2003-F<br/>“DOE Handbook: Integration of Multiple Hazard<br/>Analysis Requirements and Activities”</b><br><i>James Goss, NNSA Y-12 Site Office [Team Chair]</i>                                                                                                                                                                  | <b>REMEDIATION</b> <i>Bob Bistline, RF [Team Lead]</i><br>Room GH-035 [Call-in Number 301-903-6471]<br><b>“Releasing Items from Beryllium to Non-beryllium<br/>Operational Areas”</b><br><i>Jim Jenkins, Y-12</i> |  |
| <b>11:45 – 12:30</b>                                                | <b>TRAINING SESSION – CSTC Project 2003-A<br/>“Chemical Management Handbook, VOLUME 3:<br/>Consolidated Chemical User Safety &amp; Health<br/>Requirements”</b><br><i>Dave Quigley, D. R. Quigley &amp; Associates<br/>[Team Chair]</i>                                                                                                                             |                                                                                                                                                                                                                   |  |
| <b>12:30 – 1:40</b>                                                 | <b>LUNCH</b>                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                   |  |
| <b>1:40 – 2:25</b>                                                  | <b>“Making the Turn in Chemical Safety”</b><br><i>Gary Hagan, BWXT Y-12, L.L.C.</i>                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |  |
| <b>2:25 – 2:55</b>                                                  | <b>“Chemical Safety Management at the Activity Level: The DOE Office of Oversight ES&amp;H Evaluation<br/>Teams’ Perspective”</b><br><i>M. Mielke, DOE-HQ/OA-50, and Jim Lockridge, Eagle Research Group</i>                                                                                                                                                        |                                                                                                                                                                                                                   |  |
| <b>2:55 – 3:05</b>                                                  | <b>BREAK [10 minutes]</b>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                   |  |
| <b>3:05 – 3:25</b>                                                  | <b><u>Plenary Session:</u> Beryllium Session Team Report-outs</b><br><i>David Weitzman, DOE-HQ/EH-52, Facilitator</i>                                                                                                                                                                                                                                               |                                                                                                                                                                                                                   |  |
| <b>3:25 – 4:55</b>                                                  | <b><u>Plenary Session:</u> Begin CSTC 2004 Project Discussions/Brainstorm CSTC Issues for 2004</b><br><i>Bill McArthur/J.C. Laul, Facilitators</i><br><i>3:25 – 4:05 Recommendations by Workshop Participants for Potential 2004 Projects and <u>DISCUSSION</u></i><br><i>4:05 – 4:55 Develop a List of Potential 2004 Project Topics with a Focus on “Product”</i> |                                                                                                                                                                                                                   |  |
| <b>4:55 – 5:00</b>                                                  | <b>Closing Remarks and Announcements</b><br><i>J.C. Laul/Bill McArthur</i>                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                   |  |

## Day 3 -- Thursday, November 6, 2003

### *Identifying and Controlling Chemical Hazards at the Activity Level* *CSTC Path Forward for 2004 – New Project Discussion and Selection* *TRAINING – “Managing Insidious Chemical Hazards and Vulnerabilities”*

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 8:55 – 9:00   | Welcome to Day 3                                                                                                                                                                                                                                                                                                                                                                                                                           | J.C. Laul/ Bill McArthur                                               |
| 9:00 – 9:45   | “The CSB Mission: ‘Promote Chemical Incident Prevention’...But, How? ”<br>Carolyn Merritt, Chairman and CEO, U.S. CSB                                                                                                                                                                                                                                                                                                                      |                                                                        |
| 9:45 – 9:55   | BREAK [10 minutes]                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |
| 9:55 – 10:55  | <u>Plenary Session</u><br>Discussion/Balloting and VOTE COUNT <ul style="list-style-type: none"><li>• Open discussion of list of candidate CSTC projects for 2004 developed on Day 2</li><li>• Distribution* of Ballots for selection of 5 project topics from list of 2004 projects<br/>*[Faxed to remote sites]</li><li>• Vote Count and selection of 5 CSTC projects for 2004 from list</li></ul>                                       | J.C. Laul/ Bill McArthur, Facilitators                                 |
| 10:55 – 11:40 | <u>Break-out Session</u><br>Participants to break-out rooms for new 2004 Team-building and project discussions: <ul style="list-style-type: none"><li>• Teams develop preliminary project descriptions, strategies &amp; proposed products</li></ul> <u>Break-out Rooms and call-in numbers:</u><br>Main Auditorium [301-903-9197], Small Auditorium [301-903-6084] /GH-019 [301-903-6098]<br>GH-027 [301-903-6202] /GH-035 [301-903-6060] |                                                                        |
| 11:40 – 12:25 | <u>Plenary Session</u> - All CSTC Projects for 2004 -- Team Report-Outs <ul style="list-style-type: none"><li>• Designations of All CSTC 2004 Projects, Teams and Team Chairs</li><li>• New Project Preliminary Titles/Goals/Descriptions of Proposed Products</li></ul>                                                                                                                                                                   | Bill McArthur/J.C. Laul, Facilitators<br>CSTC 2004 Project Team Chairs |
| 12:25 – 12:55 | <u>Plenary Session</u> <ul style="list-style-type: none"><li>• Recognition of CSTC and CSTC Project Teams’ Accomplishments</li><li>• Anticipated Path Forward to Product Completion for Achieving Excellence in Chemical Management at DOE in 2004</li></ul>                                                                                                                                                                               | Rick Jones/Bill McArthur/J.C. Laul                                     |
| 12:55 – 2:00  | LUNCH                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |
| 2:00 – 4:30   | TRAINING: “Managing Insidious Chemical Hazards and Vulnerabilities”<br>3:15 – 3:25 BREAK [10 minutes]                                                                                                                                                                                                                                                                                                                                      | Rudy Gerlach, Gerlach Training and Consultation                        |
| 4:30 – 4:35   | Adjournment/Closing Remarks                                                                                                                                                                                                                                                                                                                                                                                                                | Bill McArthur/J.C. Laul                                                |